Specification
CM69 TRMS AC Earth Leakage Clamp Meter



ELECTRICAL

All specified accuracies are at 23°C ± 5°C, <80% RH for 1 year.

Temperature coefficient: Add 0.1 x (specified accuracy) per °C. (0°C to 18°C, 28°C to 40°C).

All accuracies below are expressed as ± (percentage of reading + digits)

DC Voltage

Range	Resolution	Input impedance	Accuracy
60V	0.01V	2MΩ	1.0% + 2
600V	0.1V		

Overload protection: 660V DC or AC rms

AC Voltage (True RMS)

Range	Resolution	Input impedance	Accuracy (50 to 500Hz)
60V	0.01 V	2MΩ	1.0% + 3
600V	0.1 V		

Crest factor: 2.0
Overload protection: 660V DC or AC rms

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GENERAL

Display: Liquid crystal display with maximum reading 6000
Sample rate 2 times/sec
Polarity: automatic, positive implied, '-' for negative polarity indication
Overrange: (OL) is displayed
Power: 2 x 1.5V, AAA alkaline batteries (IEC LR03, NEDA 24A)
Battery life (alkaline): 40 hours typical for ACV, ACmA and ACA ranges
60 hours typical for DCV and resistance ranges
Low battery indication: ▭+ symbol is displayed
Auto power off: after 30 minutes
Jaw opening capability: 23mm
Dimensions: 206 x 76 x 33.5mm
Weight: 262g approx. including batteries
Includes: carrying case, set of TL16 test leads, 2 x 1.5V AAA batteries, instructions

ENVIRONMENTAL

Temperature & Humidity
(Operating): 0°C to 40°C <80% R.H., non-condensing
(Storage): -10°C to 60°C <70% R.H., batteries removed
Altitude: up to 2000m
Pollution degree: 2

SAFETY

Conforms to: BS EN 61010-1, BS EN 61010-2-032, CAT IV 300V, CAT III 600V
Class II, double insulation

EMC

Conforms to BS EN 61326-1

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AC Current (True RMS)

Range	Resolution	Accuracy	
		(50 to 60Hz)	60 to 500Hz or LPF selected
6mA	0.001mA	1.0% + 8	2.0% + 8
60mA	0.01mA	1.0% + 5	2.0% + 5
600mA	0.1mA		
6A	0.001A		
60A	0.01A		

Crest factor: 2.0
Overload protection: 100A DC or AC rms
Low pass filter
Cut-off frequency: 160Hz approx
Attenuation characteristic: -24dB/octave approx

Resistance

Range	Resolution	Open circuit voltage	Accuracy
600Ω	0.1Ω	2.2V dc	1.0% + 2
6kΩ	0.001kΩ		
60kΩ	0.01kΩ		
600kΩ	0.1kΩ		

Overload protection: 600V DC or AC rms

Continuity

Open circuit voltage	Audible indication
2.8V dc	<55±10Ω

Overload protection: 600V DC or AC rms

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SPECIFICATION FOR TL16 TEST LEADS

Maximum voltage: 1000V AC/DC
Maximum current: 10A continuous
Connector: 4mm banana plug with fixed shroud

Environmental

Temperature (Operating & Storage): 0°C to 40°C
Altitude: up to 2000m
Pollution degree 2

Safety

Conforms to BS EN 61010-031, CAT IV 600V, CAT III 1000V, 10A (Probe tip covers fitted)
CAT II 1000V, 10A (Probe tip covers removed)
Class II, double insulation

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